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MATERIAL SAFETY DATA SHEET (MSDS)

ACRYLAMIDE (FOR ELECTROPHORESIS)

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : ACRYLAMIDE (FOR ELECTROPHORESIS)

Product code : A0013000500

Identification of the product : Acrylamide
 CAS No :79-06-1
 EC No :201-173-7
 Annex No :616-003-00-0

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use : Industrial. For professional use only.

1.3. Details of the supplier of the safety data sheet

Company identification SUVCHEM
 Chaitanya Tower, 2nd Floor, Office # 206,
 Siddharth Nagar, S.V. Road,
 Goregaon (West), Mumbai - 400062,
 Maharashtra, India.
 Contact: +91 22 28725393 / 94 / 95
 Email ID: info@suvchem.com/care@suvchem.com

1.4. Emergency telephone number

Phone no. : + 91 22 28725393 / 94 / 95 (9:00am - 6:00 pm) [Office hours]

2. Hazards identification -DSD

2.1. Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45

Classification : Carc. Cat. 2; R45
 Muta. Cat. 2; R46
 Repr. Cat. 3; R62
 T; R25-R48/23/24/25
 Xn; R20/21
 Xi; R36/38
 R43

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards : Carcinogenicity - Category 1B - Danger (CLP : Carc. 1B) H350
 Reproductive toxicity - Fertility - Category 2 - Warning (CLP : Repr. 2) H361
 Specific Target Organ Toxicity - Single exposure - Respiratory tract irritation -
 Category 3 - Warning (CLP : STOT SE 3) H335
 Specific Target Organ Toxicity - Repeated exposure - Category 1 - Danger (CLP :

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ACRYLAMIDE (FOR ELECTROPHORESIS)
2. Hazards identification -DSD (continued)

STOT RE 1) H372
 Acute toxicity, Oral - Category 3 - Danger (CLP : Acute Tox. 3) H301
 Germ cell mutagenicity - Category 1B - Danger (CLP : Muta. 1B) H340
 Acute toxicity, dermal - Category 4 - Warning (CLP : Acute Tox. 4) H312
 Acute toxicity, Inhalation - Category 4 - Warning (CLP : Acute Tox. 4) H332
 Skin irritation - Category 2 - Warning (CLP : Skin Corr. 2) H315
 Skin sensitisation - Category 1 - Warning (CLP : Skin Sens. 1) H317
 Eye irritation - Category 2A - Warning (CLP : Eye Irrit. 2) H319

2.2. Label elements
Labelling EC 67/548 or EC 1999/45
Symbol(s)

Symbol(s)

: T : Toxic

R Phrase(s)

: R45 : May cause cancer.
 R46 : May cause heritable genetic damage.
 R20/21 : Harmful by inhalation and in contact with skin.
 R25 : Toxic if swallowed.
 R36/38 : Irritating to eyes and skin.
 R43 : May cause sensitization by skin contact.
 R48/23/24/25 : Toxic : danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.
 R62 : Possible risk of impaired fertility.

S Phrase(s)

: S53 : Avoid exposure - obtain special instructions before use.
 S45 : In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).

Contains

: Acrylamide

Labelling Regulation EC 1272/2008 (CLP)
Hazard pictograms

Signal words

: Danger

Hazard statements

: H301 : Toxic if swallowed.
 H350 : May cause cancer.
 H340 : May cause genetic defects.
 H361f : Suspected of damaging fertility.
 H312 : Harmful in contact with skin.
 H319 : Causes serious eye irritation.
 H315 : Causes skin irritation.
 H317 : May cause an allergic skin reaction.

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ACRYLAMIDE (FOR ELECTROPHORESIS)

2. Hazards identification -DSD (continued)

H332 : Harmful if inhaled.
H335 : May cause respiratory irritation.
H372 : Causes damage to organs through prolonged or repeated exposure.

Precautionary statements

- **General** : P201: Obtain special instructions before use.
- **Prevention** : P280: Wear protective gloves, protective clothing, eye protection, face protection.
P271: Use only outdoors or in a well-ventilated area.
P260: Do not breathe dust, fume, gas, mist, vapours, spray.
P264: Wash thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P272: Contaminated work clothing should not be allowed out of the workplace.
- **Response** : P301+P310: IF SWALLOWED : Immediately call a POISON CENTER or doctor.
P302+P352: IF ON SKIN : Wash with plenty of soap and water.
P308+P313: If exposed or concerned : get medical advice.
P305+P351+P338: IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing.
P333+P313: If skin irritation or rash occurs : Get medical advice.
P363: Wash contaminated clothing before reuse.
P314: Get medical advice if you feel unwell.
- **Storage** : P403+P233: Store in well-ventilated place. Keep container tightly closed.
P405: Store locked up.
- **Disposal considerations** : P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
- Special labelling** : Restricted to professional users. (Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008)
- Contains** : Acrylamide

2.3. Other hazards

- Other hazards** : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

3. Composition/information on ingredients

Substance / Preparation : Acrylamide
CAS No :79-06-1
EC No :201-173-7
Annex No :616-003-00-0
Substance.

Substance name	Contents	CAS No	EC No	Annex No	REACH Ref.	Classification
Acrylamide	100 %	79-06-1	201-173-7	616-003-00-0	----	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Repr. Cat. 3; R62 T; R25-48/23/24/25 Xn; R20/21 Xi; R36/38 R43

MATERIAL SAFETY DATA SHEET (MSDS)

ACRYLAMIDE (FOR ELECTROPHORESIS)

3. Composition/information on ingredients (continued)

Carc. 1B _ H350
Muta. 1B _ H340
Acute Tox. 3 (oral) _ H301
STOT RE 1 _ H372
Acute Tox. 4 (skin) _ H312
Acute Tox. 4 (inhal) _ H332
Repr. 2 _ H361f
Eye irrit 2 _ H319
Skin Irrit. 2 _ H315
STOT SE 3 _ H335
Skin Sens. 1 _ H317

Contains no other components or impurities which will influence the classification of the product.

4. First aid measures

4.1. Description of first aid measures

- Inhalation** : Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.
- Skin contact** : Immediately call a POISON CENTER or doctor. Specific treatment (see on this label). Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs : Get medical advice.
- Eye contact** : Get medical advice. Rinse cautiously with water for several minutes. If eye irritation persists : Remove contact lenses, if present and easy to do. Continue rinsing.
- Ingestion** : Immediately call a POISON CENTER or doctor. Specific treatment (see on this label). Do NOT induce vomiting. Rinse mouth.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms relating to use** : Swallowing a small quantity of this material will result in serious health hazard. Repeated exposure to this material can result in absorption through skin causing significant health hazard. Danger of serious damage to health by prolonged exposure through inhalation. May cause cancer. May cause genetic defects. Causes damage to organs through prolonged or repeated exposure. Suspected of damaging fertility. Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction. May cause respiratory irritation.

4.3. Indication of any immediate medical attention and special treatment needed

- General information** : Never give anything by mouth to an unconscious person. If exposed or concerned : get medical advice.

5. Fire-fighting measures

5.1. Extinguishing media

MATERIAL SAFETY DATA SHEET (MSDS)

ACRYLAMIDE (FOR ELECTROPHORESIS)

5. Fire-fighting measures (continued)

- Suitable extinguishing media** : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media** : Do not use a heavy water stream.
- Surrounding fires** : Use water spray or fog for cooling exposed containers.

5.2. Special hazards arising from the substance or mixture

- Hazardous combustion products** : Under fire conditions, hazardous fumes will be present.

5.3. Advice for fire-fighters

- Protection against fire** : Do not enter fire area without proper protective equipment, including respiratory protection.
- Special procedures** : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- For emergency responders** : Equip cleanup crew with proper protection. Ventilate area.
- For non-emergency personnel** : Evacuate unnecessary personnel.

6.2. Environmental precautions

- Environmental precautions** : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- Clean up methods** : On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

6.4. Reference to other sections

See section 8. Exposure controls/personal protection

7. Handling and storage

7.1. Precautions for safe handling

- Handling** : Do not eat, drink or smoke when using this product. Eliminate all ignition sources if safe to do so. Obtain special instructions before use. Wash thoroughly after handling. Do not breathe dust, fume, gas, mist, vapours, spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid breathing

MATERIAL SAFETY DATA SHEET (MSDS)

ACRYLAMIDE (FOR ELECTROPHORESIS)

7. Handling and storage (continued)

dust, fume, gas, mist, vapours, spray. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace.

Technical protective measures : Provide good ventilation in process area to prevent formation of vapour.
Special precautions : Avoid breathing dust, fume, gas, mist, vapours, spray.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep only in the original container in a cool, well ventilated place. Keep container tightly closed.
Storage - away from : Strong bases. Strong acids. Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

Specific end use(s) : None.

8. Exposure controls/personal protection

8.1. Exposure controls

Personal protection : Avoid all unnecessary exposure.
• **Respiratory protection** : In case of insufficient ventilation, wear suitable respiratory equipment.
• **Hand protection** : Wear protective gloves.
• **Skin protection** : Wear suitable protective clothing.
• **Eye protection** : Chemical goggles or safety glasses.
• **Others** : When using, do not eat, drink or smoke.

8.2. Control parameters

Occupational Exposure Limits : No data available.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state at 20 °C : Solid.
Colour : White powder
Odour : Odorless
Odour threshold : No data available.
pH value : Not applicable.

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ACRYLAMIDE (FOR ELECTROPHORESIS)
9. Physical and chemical properties (continued)

Melting point [°C]	: 83 - 850C
Decomposition point [°C]	: 840C
Critical temperature [°C]	: N/A
Auto-ignition temperature [°C]	: 2400C
Flammability (solid, gas)	: N/A
Flash point [°C]	: N/A
Boiling point [°C]	: 1250C
Initial boiling point [°C]	: N/A
Final boiling point [°C]	: N/A
Evaporation rate	: N/A
Vapour pressure [20°C]	: 0.007 mm Hg at 20 °C
Vapour pressure mm/Hg	: 0.007 mm Hg at 20 °C
Vapour density	: 2,45
Density [g/cm ³]	: 1,122
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: Soluble
Solubility in water	: N/A
Log Pow octanol / water at 20°C	: No data available.
Solubility	: N/A
Viscosity at 40°C [mm ² /s]	: N/A

9.2. Other information

Explosive properties	: N/A
Explosion limits - upper [%]	: N/A
Explosion limits - lower [%]	: N/A
Oxidising properties	: No data available.

10. Stability and reactivity
10.1. Reactivity

Reactivity	: Not established.
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10.2. Chemical stability

Chemical stability	: Stable under recommended storage conditions.
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10.3. Possibility of hazardous reactions

MATERIAL SAFETY DATA SHEET (MSDS)

ACRYLAMIDE (FOR ELECTROPHORESIS)

10. Stability and reactivity (continued)

Hazardous reactions : Not established.

10.4. Conditions to avoid

Conditions to avoid : Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Materials to avoid : Strong acids. Strong bases.

10.6. Hazardous decomposition products

Hazardous decomposition products : Fumes. Carbon monoxide. Carbon dioxide.

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity

- **Inhalation** : Harmful if inhaled.
- **Dermal** : Harmful in contact with skin.
- **Ingestion** : Toxic if swallowed.

Corrosion : Based on available data, the classification criteria are not met.

Irritation : Causes serious eye irritation.
 Causes skin irritation.
 May cause respiratory irritation.

Sensitization : May cause an allergic skin reaction.

Mutagenicity : May cause genetic defects.

Carcinogenicity : May cause cancer.

Toxic for reproduction : Suspected of damaging fertility.

STOT-single exposure : Based on available data, the classification criteria are not met.

STOT-repeated exposure : Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard : Based on available data, the classification criteria are not met.

12. Ecological information

12.1. Toxicity

Toxicity information : Not established.

12.2. Persistence - degradability

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ACRYLAMIDE (FOR ELECTROPHORESIS)
12. Ecological information (continued)

Persistence - degradability : Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential : Not established.

12.4. Mobility in soil

Mobility in soil : Not established.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

12.6. Other adverse effects

Environmental precautions : Avoid release to the environment.

13. Disposal considerations
13.1. Waste treatment methods

General : Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.
 Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Special precautions : Hazardous waste due to toxicity.

14. Transport information
14.1. Land transport (ADR-RID)

Proper shipping name : ACRYLAMIDE, SOLID
UN N° : 2074
H.I. nr : 60
ADR - Class : 6.1
Labelling - Transport : 6.1 : Toxic substances.



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ACRYLAMIDE (FOR ELECTROPHORESIS)

14. Transport information (continued)

ADR - Classification code	: T2 T2
ADR - Group	: III
ADR - Packing instructions	: P002 R001 LP002
ADR - Limited Quantity	: 5 KG
ADR - Tunnel code	: E : Passage forbidden through tunnels of category E.



14.2. Sea transport (IMDG) [English only]

Proper shipping name	: ACRYLAMIDE, SOLID
UN N°	: 2074
IMO-IMDG - Class or division	: 6.1 : Toxic substances.
IMO-IMDG - Packing group	: III
IMO-IMDG - Packing instructions	: P002 LP02
IMO-IMDG - Limited quantities	: 5 kg
IMO-IMDG - Marine pollution	: No
EMS-Nr	: F-A S-A

14.3. Air transport (ICAO-IATA) [English only]

Proper shipping name	: ACRYLAMIDE, SOLID
UN N°	: 2074
IATA - Class or division	: 6.1 : Toxic substances.
IATA - Packing group	: III
IATA - Passenger and Cargo Aircraft	: ALLOWED
- Passenger and Cargo - Packing instruction	: 670
- Passenger and Cargo - Maximum Quantity/Packing	: 100 kg
IATA - Cargo only	: ALLOWED
- Cargo only - Packing instruction	: 677
- Cargo only - Maximum Quantity/Packing	: 200 kg
IATA - Limited Quantities	: 10 kg
ERG-Nr	: 6L

MATERIAL SAFETY DATA SHEET (MSDS)

ACRYLAMIDE (FOR ELECTROPHORESIS)

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

- Safety, health and environmental regulations/legislation specific for the substance or mixture** : Ensure all national/local regulations are observed.
- REACH Restrictions - Annex XVII** : With the exception of those listed below:
The components of this product are not subject to restrictions.
Annex XVII
- REACH Authorisation - Annex XIV** : The components of this product are not subject to authorization.

15.2. Chemical Safety Assessment

- Chemical Safety Assessment** : It has not been carried out.

16. Other information

- Revision** : Revision - See : *
- Abbreviations and acronyms** : PBT: persistent, bioaccumulative and toxic.
vPvB: very persistent and very bioaccumulative
- Sources of key data used** : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
- List of relevant R phrases (heading 3)** : R20/21 : Harmful by inhalation and in contact with skin.
R25 : Toxic if swallowed.
R36/38 : Irritating to eyes and skin.
R43 : May cause sensitization by skin contact.
R45 : May cause cancer.
R46 : May cause heritable genetic damage.
R48/23/24/25 : Toxic : danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.
R62 : Possible risk of impaired fertility.
- List of full text of H-statements in section 3** : H301 : Toxic if swallowed.
H312 : Harmful in contact with skin.
H315 : Causes skin irritation.
H317 : May cause an allergic skin reaction.
H319 : Causes serious eye irritation.
H332 : Harmful if inhaled.
H335 : May cause respiratory irritation.
H340 : May cause genetic defects.
H350 : May cause cancer.
H361f : Suspected of damaging fertility.
H372 : Causes damage to organs through prolonged or repeated exposure.
- Further information** : None.

MATERIAL SAFETY DATA SHEET (MSDS)
ACRYLAMIDE (FOR ELECTROPHORESIS)

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

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- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
 - **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
 - **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.
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